S t Nam side by side	Query	<u>Hit</u> <u>Count</u>	<u>St</u> <u>Name</u> result set
DB=USF	PT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR	·	
<u>L8</u>	resistant adj2 L adj lysine same (corynebacter\$ or brevibacter\$ or Escherichia or bacillus)	8	<u>L8</u>
<u>L7</u>	resistant adj5 L adj lysine same corynebacter\$	13	<u>L7</u>
<u>L6</u>	resistant same L adj lysine same corynebacter\$	110	<u>L6</u>
DB=USF	PT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR		
<u>L5</u>	soybean adj hydrolysate same L adj lysine	7	<u>L5</u>
DB=USF	PT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L4</u>	corynebacter\$ same L adj lysine same 10 adj (g or gm or gram\$)	5	<u>L4</u>
DB=USF	PT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR		
<u>L3</u>	4601982.PN.	2	<u>L3</u>
<u>L2</u>	5989875.PN.	2	L2
DB=USF	PT; PLUR=YES; OP=OR		
<u>L1</u>	6040160.PN.	1	<u>L1</u>

END OF SEARCH HISTORY



Generate Collection

Print

Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20030049804 A1

L6: Entry 1 of 4

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049804

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049804 A1

TITLE: Corynebacterium glutamicum genes encoding metabolic pathway proteins

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pompejus, Markus	Freinsheim		DE	
Kroger, Burkhard	Limburgerhof		DE	
Schroder, Hartwig	Nussloch		DE	
Zelder, Oskar	Speyer		DE	
Haberhauer, Gregor	Limburgerhof		DE	
Kim, Jun-Won	Seoul		KR	
Lee, Heung-Shick	Seoul		KR	
Hwana Byuna-Joon	Seoul		KR	

US-CL-CURRENT: 435/115; 435/183, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full little	Uttation	Front	Review [Classification	Date	Kererence	Sequences	Anachments	r la lius i	KOVIC §
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2. Document ID: US 6534315 B1

L6: Entry 2 of 4

File: USPT

Mar 18, 2003

US-PAT-NO: 6534315

DOCUMENT-IDENTIFIER: US 6534315 B1

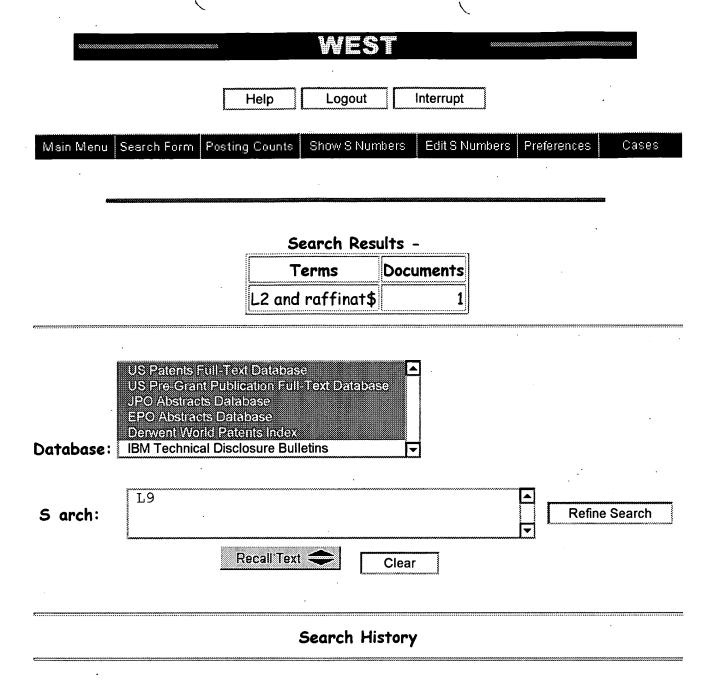
TITLE: Yeast transformation cassette



Full Drawa (· · · · · · · · · · · · · · · · · · ·	ont Review Classification Date Refe	rence Sequences Attachments Claims KWAC
	3. Document	· ID: US 6261825 B1	
L6: 8	Entry 3 of 4	File: USPT	· Jul 17, 2001
DOCUMEN	IO: 6261825 NT-IDENTIFIER: age for Certifica	US 6261825 B1 te of Correction **	
TITLE: Pr	oduction of amino	acids using auxotrophic mutants o	f methylotrophic bacillus
Full Draw. C	Title Citation Front	ont Review Classification Date Refe	rence Sequences Attachments Claims KMC
	4. Document	ID: US 6110713 A	
L6: 8	Entry 4 of 4	File: USPT	Aug 29, 2000
	IO: 6110713 NT-IDENTIFIER:	US 6110713 A	
TITLE: Pr	oduction of glutar	nic acid and lysine using auxotroph	ic mutants of Bacillus methanolicus
Full Draw. C	·	ont Review Classification Date Refe	rence Sequences Attachments Claims KWC
<i>k</i>		Generate Collection	Print
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<u>Previous Page</u> <u>Next Page</u>



DATE: Tuesday, June 03, 2003 Printable Copy Create Case



Set Name side by side		Hit Count	S t Nam
DB=US	PT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR		
<u>L9</u>	L2 and raffinat\$	1	<u>L9</u>
<u>L8</u>	L3 and isomaltose	0	<u>L8</u>
<u>L7</u>	L3 same isomaltose	. 0	<u>L7</u>
<u>L6</u>	L4 and raffin\$	4	<u>L6</u>
<u>L5</u>	L4 same raffin\$	0	<u>L5</u>
<u>L4</u>	L3 same (coli or corynebacter\$ or brevibacter\$ or bacillus)	81	<u>L4</u>
<u>L3</u>	L2 same mutant\$	494	<u>L3</u>
<u>L2</u>	(overproduc\$ or overexpress\$) same (amino adj acid or lysine or threonine)	2365	<u>L2</u>
<u>L1</u>	raffin\$ adj5 resistan\$ same bacter\$	3	<u>L1</u>

END OF SEARCH HISTORY

m	Generate Collection	Print
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L1: Entry 38 of 47

File: JPAB

Dec 24, 1980

PUB-NO: JP355165798A

DOCUMENT-IDENTIFIER: JP 55165798 A TITLE: PREPARATION OF L-HISTIDINE

PUBN-DATE: December 24, 1980

INVENTOR-INFORMATION:

NAME

COUNTRY

TSUCHIDA, TAKAYASU SANO, TAKANOSÜKE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

AJINOMOTO CO INC

APPL-NO: JP54073053 APPL-DATE: June 12, 1979

US-CL-CURRENT: 435/107; 435/849

INT-CL (IPC): C12P 13/24

ABSTRACT:

PURPOSE: To prepare efficiently a great amount of L-histidine, by cultivating aerobically a facterium having specific properties, belonging to the genus Escherichia, in a liquid medium so that L-histidine is formed in a medium.

CONSTITUTION: A <u>bacterium</u> belonging to the genus Escherichia, having 2-thiazolealanine and 1,2,4-triazolealanine <u>resistance</u>, and L-histidine producing ability, is cultivated in a liquid medium to form and acumulate L-histidine, which is collected. Escherichia coli AJ11375 FERM-P5035, Escherichia coli AJ11376 FERM-P5036, etc. may be cited as the <u>bacterium</u>. A carbohydrate, organic acid, alcohol, etc. may be cited as a carbon source of the culture medium: <u>ammonium sulfate</u>, etc., as a nitrogen source. The cultivation is preferably carried out in a pH of 5∼9.20 at 20∼45°C under aerobic conditions for 20&sim:96hr.

COPYRIGHT: (C)1980,JPO&Japio



Generate Collection Print

L1: Entry 44 of 47

File: DWPI

Dec 24, 1986

DERWENT-ACC-NO: 1987-039018

DERWENT-WEEK: 198706

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TITLE: L-phenylalanine and L-tyrosine prodn., used for additives of food - comprises culturing methylomonas SP-20 culture medium with meth as carbon source

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SHOWA DENKO KK

SHOW

PRIORITY-DATA: 1985JP-0136124 (June 24, 1985)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 61293381 A

December 24, 1986

005

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 61293381A

June 24, 1985

1985JP-0136124

INT-CL (IPC): C12N 1/20; C12P 13/22; C12R 1/26

ABSTRACTED-PUB-NO: JP 61293381A

BASIC-ABSTRACT:

Prodn. of L-phenylalanine and L-tyrosine is effected by culturing methylomonas SD-20 with methanol assimilation and <u>resistance</u> to beta-thienylalanine and phenylhydroxamate in a culture medium with methanol as a carbon source to accumulate L -phenylalanine and L-tyrosine and collecting these objective substances. Pref. Methylomonas SD-20 is cultured in a culture medium composed of 5 ml of methanol, 1 g of <u>ammonium sulphate</u>, 5 g of potassium phosphate, 6 g of potassium diphosphage, 0.2 g of magnesium sulphate, 2 mg of ferrous sulphate, 1 mg of MnSO4.4-6H2O, 15 micrograms of biotin, 250 micrograms of thiamin hydrochloride, and 1 l of water, at pH 6.8, 20-40 deg.C for 2-5 hrs. while shaking; and after collecting and washing the <u>bacteria</u> it is again suspended in a phosphoric acid buffer soln. of 0.1 M. N-methyl-N'-nitroguanidine is added to the soln. so that its final density in the soln. becomes 50-400 ppm and the soln. is shaken at 20-40 deg.C for 3-30 mins. After collecting and washing the <u>bacteria</u>, they are plated on a culture medium contg. 500-2000 ppm of beta-thienylalanine, pref. 800-1000 ppm. It is



standing-cultured at 20-40 deg.C for 3-7 days and the growing colonies are collected to culture them on the culture medium mentioned above at 20-40 deg. C for 24-70 hrs. L-phenylalanine and L-tyrosine in the culture soln. are measured by amino acid analyser to screen the bacteria capable of producing the amino acids. Good strains are selected from thereby obtd. beta-thienylalanine resistant strains and they are given the treatment of mutation. From the mutants with phenylalanine hydroxamate resistance, the bacteria capable of producing the amino acids are screened. Thereby the objective SD-20 is prepd.

USE/ADVANTAGE - It is possible to mass-produce L-phenylalanine and L-tyrosine, which are widely used for additives of foods, or drugs, from an economical source, methanol, in commercial practice.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TER MS: PHENYLALANINE TYROSINE PRODUCE ADDITIVE FOOD COMPRISE CULTURE METHYLOMONAS SPECIES CULTURE MEDIUM METHO CARBON SOURCE

DERWENT-CLASS: B05 D16 E14

CPI-CODES: B10-B02E; D05-C01; D05-H08; E10-B02D2; E10-B02D3;

CHEMICAL-CODES:

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Chemical Indexing M2 *01*
    Fragmentation Code
    G010 G100 H1
                   H100 H181 J0
                                  J011 J1
                                             J171 M280
   M312 M321 M332 M343 M349 M371 M391 M414 M510 M520
   M531 M540 M720 M800 M903 M904 M910 N131 N425 N512
   N513 Q220 Q233
    Specfic Compounds
    03941P
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Chemical Indexing M2 *02*
    Fragmentation Code
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G013 G100 H1 H100 H181 H4 H401 H441 H8 J011 J1 J171 M280 M312 M321 M332 M343 M349 M371 M391 M414 M510 M520 M531 M540 M720 M800 M903 M904 M910 N131 N425 N512 N513 Q220 Q233 Specfic Compounds

04099P

Chemical Indexing M3 *01*

Fragmentation Code G010 G100 H1 H100 H181 J0 J011 J1 J171 M280 M312 M321 M332 M343 M349 M371 M391 M414 M510 M520 M531 M540 M720 M800 M903 M904 M910 N131 N425 N512 N513 Q220 Q233 Specfic Compounds 03941P

Chemical Indexing M3 *02*

Fragmentation Code

G013 G100 H1 H100 H181 H4 H401 H441 H8 J0



J011 J1 J171 M280 M312 M321 M332 M343 M349 M371 M391 M414 M510 M520 M531 M540 M720 M800 M903 M904 M910 N131 N425 N512 N513 Q220 Q233 Specfic Compounds 04099P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0243P; 1372P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-016325



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m	Generate Collection	Print	
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L1: Entry 47 of 47

File: DWPI

May 28, 1976

DERWENT-ACC-NO: 1976-53249X

DERWENT-WEEK: 197628

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TITLE: L-aspartic acid prodn. - from 6-dimethylaminopurine resistant Brevibacterium or Corynebacterium

bacterium

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1974JP-0134878 (November 22, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 51061689 A	May 28, 1976		000	
FR 2292041 A	July 23, 1976		000	
GB 1490008 A	October 26, 1977		000	
JP 78020593 B	June 27, 1978	•	000	
US 4000040 A	December 27, 1976	•	000	

INT-CL (IPC): CO7C 101/22; C12D 13/06

ABSTRACTED-PUB-NO: JP 51061689A

BASIC-ABSTRACT:

A 6-dimethylaminopurine-resistant L-aspartic acid-producing bacterium belonging to the genus Brevibacterium or Cornynebacterium is aerobically cultured in a nutrient medium to produce and accumulate L-aspartic acid in the culture mediu. Microorganism used include Brevibacterium flavum AJ-3859 (FERM-P 2799) obtd. by mutation of Brevibacterium flavum ATCC 14067. Pref. culture is at 24-37 degrees C for 2-7 days. The culture medium contains a carbon source e.g., glucose, an inorganic or organic nitrogen source and 1-8 g./dl. of ammonium sulphate.

TITLE-TERMS: ASPARTIC ACID PRODUCE RESISTANCE BREVIBACTERIUM CORYNEBACTERIUM BACTERIUM

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B10-B02J; D05-C01; E10-B02D;

CHEMICAL-CODES:

Chemical Indexing M2 *01*
Fragmentation Code
H1 J1 M312 M332 M321 M280 M343 M380 M391 H181
J172 J173 M620 N130 M510 M520 M530 M540 M720 M416
M902

Chemical Indexing M3 *02*
Fragmentation Code
H1 J1 M312 M332 M321 M280 M343 M380 M391 H181
J172 J173 M620 N130 N330 N340 M510 J0 M520 J012
M530 M540 M720 M416 M902



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	ammonia adj (sulfate or sulphate) same resistan\$ same bacteri\$		47
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END OF SEARCH HISTORY

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L4: Entry 3 of 5

File: JPAB

May 9, 2000

PUB-NO: JP02000125893A

DOCUMENT-IDENTIFIER: JP 2000125893 A

TITLE: METHOD FOR FERMENTATION PRODUCTION OF L-AMINO ACID

PUBN-DATE: May 9, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

BECKER, ULRICH

PETER, HEIDI DR

MORBACH, SUSANNE DR

WALGER, ILONA DR

KRAEMER, REINHARD DR

PFEFFERLE, WALTER DR

ASSIGNEE-INFORMATION:

NAME

COUNTRY

DEGUSSA HUELS AG

APPL-NO: JP11303952

APPL-DATE: October 26, 1999

INT-CL (IPC): <u>C12 P 13/08</u>; <u>C12 P 13/06</u>

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject compound with controlling the influence of cell of high osmotic pressure by adding L-proline to a liquid medium containing a well-known C source and N-source at an early stage of fermentation and culturing a coryneform bacterium capable of producing and discharging an L-amino acid.

SOLUTION: In this method for a fermentation production of an L-amino acid by culturing a coryneform bacterium (e.g. <u>Corynebacterium</u> glutamicum ATCC 13,032, etc.), capable of producing and discharging the L-amino acid, a fermentation liquid medium containing well-known C and N sources is mixed with L-proline in an amount of 0.01-10 g/L based on the fermentation liquid medium preferably at an early fermentation stage, the fermentation is performed in a minimum culture solution and/or in a limited culture solution to give the objective L-amino acid by a method for controlling the influence of cell of high osmotic pressure.

<u>L-Lysine</u>, L-isoleucine, L-threonine, L-valine, etc., can be produced as the L-amino acid.

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L4: Entry 5 of 5

File: DWPI

May 11, 1985

DERWENT-ACC-NO: 1985-150334

DERWENT-WEEK: 198525

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TITLE: L-Arginine prodn. by fermentation - using thiazolyl alanine-resistant brevibacterium or

corynebacterium microorganisms

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1983JP-0190192 (October 12, 1983)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 60083593 A

May 11, 1985

002

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 60083593A

October 12, 1983

1983JP-0190192

INT-CL (IPC): C12P 13/10; C12R 1/13

ABSTRACTED-PUB-NO: JP 60083593A

BASIC-ABSTRACT:

Prodn. comprises growing 2-thiazolyl alanine-resistant Brevibacterium or Corynebacterium microorganisms which demand L-lysine and collecting L-arginine from the culture medium. In an example, the culture medium contains 10 a/dl glucose, 7g/dl (NH4)2504, 0.1 g/dl KH2PO4, 0.04 g/dl Mg5O4.7H20, 1mg/dl FeSO4.H20, 1mg/dl MnSO4.4H20, 100 micro g/1 thiamine-HCl, 100 micro g/1 biotin, 60mg/dl (as total N) of soybean protein hydrolsate, and 5g.dl calcium carbonate (pH:7.0), and cultivation was at 31.5 deg.C for 4 days with shaking. The amt. of L-arginine accumulated in the culture liq. was 1.9, 3.0 and 3.2 g/dl for B.flavum AJ11169 (F6257-P4161,-P7269 and P7271) respectively.

ADVANTAGE - Parent strains from which mutants are derived include Breybacterium flavum ATCC14067,



Brev. lactofermentum ATCC 13869 and Corynebacterium Glutamicum ATCC 13032.

Higher productivity of L-arginine is achieved. (Corrected abstract)

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ARGININE PRODUCE FERMENTATION THIAZOLYL ALANINE RESISTANCE BREVIBACTERIUM CORYNEBACTERIUM MICROORGANISM

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B10-A17; D05-C01; E10-A17;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

H1 H100 H181 J0 J011 J1 J171 K0 L2 L250

M280 M314 M321 M332 M343 M349 M381 M391 M416 M620

M720 M800 M903 M910 N131 N261 N332 N425 N513 Q233

Chemical Indexing M3 *01*

Fragmentation Code

H1 H100 H181 J0 J011 J1 J171 K0 L2 L250

M280 M314 M321 M332 M343 M349 M381 M391 M416 M620

M720 M800 M903 M910 N131 N261 N332 N425 N513 Q233

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1655S; 1661P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1985-065674

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L5: Entry 7 of 7

File: DWPI

Aug 6, 1974

DERWENT-ACC-NO: 1974-89443V

DERWENT-WEEK: 197452

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TITLE: Microbial prodn of L-lysine - using a mutant resistant to S-2-aminoethyl-L-cysteine and requiring

isoleucine

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1972JP-0124604 (December 12, 1972)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 49081586 A

August 6, 1974

000

ABSTRACTED-PUB-NO: JP 49081586A

BASIC-ABSTRACT:

L-Lysine (I) was produced from a mutant of Brevibacterium and Corynebacterium which is resistant against S-2-aminoethyl-L-cysteine and requires isoleucine. B. flavum AJ-3419 (FERM-P 1708) and No. 211 (parent) and C. glutamicum AJ-3420 (FERM-P 1709) and No. 3305 (parent) were cultured with shaking at >=1 degrees for 72 hrs. in a medium (pH 7.0) contg. glucose 10, (NH4)2504 5, KH2PO4 0.1 MgSO47H2O 0.04, soybean hydrolysate 1.0, and CaCO3 5%, plus 2 ppm of Fe++ and Mn++, biotin 50, and thiamine HCl 200 ug/l. Prodns. of (I) were 3.5, 1.7, 3.7, and 2.0 g/dl, resp. (I) was adsorbed on Amberlite IR-120 (H+) from the culture supernatant (1 1.) of AJ-3419 or AJ-3420 and eluted with 3% NH4OH. (I) was crystd. as (I)-HCl.2H2O from the concd. eluate by addn. of HCl and cooling; 25.3 and 24.2 g, resp.

TITLE-TERMS: MICROBE PRODUCE LYSINE MUTANT RESISTANCE AMINOETHYL CYSTEINE REQUIRE ISOLEUCINE

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B10-B01B: D05-C01: E10-B01B:

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

H1 J1 M315 M332 M321 M280 M343 M380 M391 H182 H183 J171 M620 N130 M510 M520 M530 M540 M720 M416 M902

Chemical Indexing M3 *02*

Fragmentation Code

H1 J1 M315 M332 M321 M280 M343 M380 M391 H182 H183 J171 M620 N130 N310 N330 N340 M510 J0 M520

M530 M540 M720 M416 M902

Generate Collection Print

L7: Entry 8 of 13

File: JPAB

Jan 19, 1988

PUB-NO: JP363012292A

DOCUMENT-IDENTIFIER: JP 63012292 A TITLE: PRODUCTION OF L-LYSINE

PUBN-DATE: January 19, 1988

INVENTOR-INFORMATION:

NAME

COUNTRY

YONEKURA, HIDEAKI HIRAO, TOSHIHIKO AZUMA, TOMOKI

NAKANISHI, TOSHIHIDE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

KYOWA HAKKO KOGYO CO LTD

APPL-NO: JP61156775 APPL-DATE: July 3, 1986

INT-CL (IPC): C12P 13/08

ABSTRACT:

PURPOSE: To produce the titled compound useful as a food additive, etc., on an industrial scale at a low cost, by culturing a microbial strain belonging to glutamic acid-producing coryne-form strain resistant to &beta:-naphthoquinoline and capable of producing L-lysine in a medium and separating the product from the cultured liquid.

CONSTITUTION: A microbial strain belonging to glutamic acid-producing coryne- form strain <u>resistant to β-naphthoquinoline and capable of producing L-lysine</u> [e.g. <u>Corynebacterium</u> glutamicum H-4412 (FERM BP-1069), etc.] is cultured in a medium containing glucose, etc., as carbon source, urea, etc., as nitrogen source and potassium phosphate, etc., as inorganic component. The produced and accumulated L-lysine is separated from the cultured liquid.

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L7: Entry 11 of 13

File: DWPI

Jul 17, 1982

DERWENT-ACC-NO: 1982-71170E

DERWENT-WEEK: 198234

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TITLE: L-Lysine prepn. - by culturing adenine- or thymine<u>-resistant Brevibacterium or Corynebacterium</u>

and removing L-lysine produced

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1980JP-0185674 (December 29, 1980)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 57115185 A

July 17, 1982

004

INT-CL (IPC): C12P 13/08; C12R 1/13

ABSTRACTED-PUB-NO: JP 57115185A

BASIC-ABSTRACT:

L-lysine is produced by culturing a variant strain of Brevibacterium or Corynebacterium genus having resistance to adenine or thymine and L-lysine-producing power, and removing the L-lysine obtd. and accumulated in the culture medium.

Variant strains of Brevibacterium or Corynebacterium genus may be obtd. by subjecting Brevibacterium Corynebacterium microorganism to usual variation-processing such as treatment with N-methyl-N'-nitro-N-nitrosoguanidine and selecting the strains which have obtd. adenine or thymine-resistance.

Parent strains are pref. coryneformglutamic acid producing bacteria, e.g. Brevibacterium lactofermentum ATCC 13869, Brevebacterium flavum ATCC 14067, Corynebacterium glutamicium ATCC 13032 etc. Variants are e.g. Corynebacterium glutamican AJ 11649 (FERM-P 5830) O Brevibacterium lactofermentum AJ 11651 (FERM-P 5832).

TITLE-TERMS: LYSINE PREPARATION CULTURE ADENINE THYMINE RESISTANCE BREVIBACTERIUM CORYNEBACTERIUM REMOVE LYSINE PRODUCE

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B10-B01B; D05-C01; E10-B01C;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

H1 H101 H182 J0 J011 J1 J171 M280 M315 M321

M332 M343 M349 M381 M391 M416 M620 M720 M903 M910

N131 N513 O232

Chemical Indexing M3 *01*

Fragmentation Code

H1 H101 H182 J0 J011 J1 J171 M280 M315 M321

M332 M343 M349 M381 M391 M416 M620 M720 M903 M910

N131 N513 Q232

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1655P

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L7: Entry 13 of 13

File: DWPI

MAIN-IPC

DERWENT-ACC-NO: 1971-808665

DERWENT-WEEK: 197151

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TITLE: L-lysine prodn - by microbiological process under aerobic conditions

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1969JP-0021509 (March 20, 1969)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES
GB 1258380 A 000
CA 937183 A 000
JP 73028078 B 000
US 3707441 A 000

INT-CL (IPC): CO7C 101/00

ABSTRACTED-PUB-NO: GB 1258380A

BASIC-ABSTRACT:

Process for the prepn. of L-lysine for use as a food additive comprises culturing, under arobic conditions, a s-(2-aminoethyl)-L-cysteine <u>resistant</u>, <u>L-lysine</u>-producing strain of Brevibacterium, <u>Corynebacterium</u>, Microbacterium or Micrococcus in a medium contg. is not <1 assimilable C source, a nitrogen source and required growth promoting and inorganic constituents. The pH is maintained at 5-9 and the L-lysine produced is recovered from the medium.

The process is inexpensive and uses readily available raw materials.

TITLE-TERMS: LYSINE PRODUCE MICROBIOLOGICAL PROCESS AEROBIC CONDITION

DERWENT-CLASS: B05 D16 E16

CPI-CODES: B10-B01B; B12-J01; B12-L09; D03-G01; D03-H01; D05-C01; E10-B01B;

CHEMICAL-CODES:

Chemical Indexing M2 *01*
Fragmentation Code
H1 J1 H182 H183 J171 M620 N130 M510 M520 M530
M540 M720 P710 R002 M416 M901

Chemical Indexing M3 *02*
Fragmentation Code
H1 J1 H182 H183 J171 M620 N130 M510 M520 M530
M540 M720 M416 M901



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Search Results - Record(s) 11 through 13 of 13 returned.

11. Document ID: JP 57115185 A

L7: Entry 11 of 13

File: DWPI

Jul 17, 1982

DERWENT-ACC-NO: 1982-71170E

DERWENT-WEEK: 198234

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TITLE: L-Lysine prepn. - by culturing adenine- or thymine-resistant Brevibacterium or Corynebacterium

and removing L-lysine produced

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC |
Draw, Desc | Image |

12. Document ID: FR 2497231 A JP 57115186 A JP 87036673 B US

4411997 A

L7: Entry 12 of 13

File: DWPI

Jul 2, 1982

DERWENT-ACC-NO: 1982-68653E

DERWENT-WEEK: 198233

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TITLE: Prodn. of L-lysine by fermentation - using ethylene glycol resistant mutants of Brevibacterium or

Corynebacterium

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, Desc Image

13. Document ID: GB 1258380 A CA 937183 A JP 73028078 B US

3707441 A

L7: Entry 13 of 13

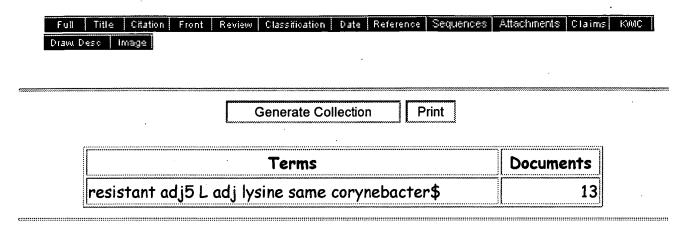
File: DWPI

DERWENT-ACC-NO: 1971-808665

DERWENT-WEEK: 197151

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TITLE: L-lysine prodn - by microbiological process under aerobic conditions



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Previous Page

Next Page

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Search Results - Record(s) 1 through 10 of 13 returned.

1. Document ID: US 20020151700 A1

L7: Entry 1 of 13

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151700 A1

TITLE: Method to monitor a fermentation process

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

CITY	STATE	COUNTRY	RULE-47
Bielefeld		DE	
Bielefeld		DE	
Bielefeld		DE .	
Salzkotten		DE	'
Bielefeld		DE	
Dusseldorf		DE	
Bielefeld		DE ·	
Jena,		DE	
Jena		DE	
Gelnhausen		DE ·	
Halle		DE	
	Bielefeld Bielefeld Bielefeld Salzkotten Bielefeld Dusseldorf Bielefeld Jena Jena Gelnhausen	Bielefeld Bielefeld Bielefeld Salzkotten Bielefeld Dusseldorf Bielefeld Jena Jena Gelnhausen	Bielefeld DE Bielefeld DE Bielefeld DE Salzkotten DE Bielefeld DE Dusseldorf DE Bielefeld DE Jena DE Jena DE Gelnhausen DE

US-CL-CURRENT: 536/23.2; 435/287.2, 435/6

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2. Document ID: US 4861722 A

L7: Entry 2 of 13

File: USPT

Aug 29, 1989

US-PAT-NO: 4861722

DOCUMENT-IDENTIFIER: US 4861722 A

TITLE: Coryneform bacteria carrying recombinant plasmids and their use in the fermentative production

of L-lysine

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC Draw. Desc Image

3. Document ID: US 4560654 A

L7: Entry 3 of 13

File: USPT

Dec 24, 1985

US-PAT-NO: 4560654

DOCUMENT-IDENTIFIER: US 4560654 A

TITLE: Method for producing L-lysine by fermentation



1 4. Document ID: US 4452890 A

L7: Entry 4 of 13

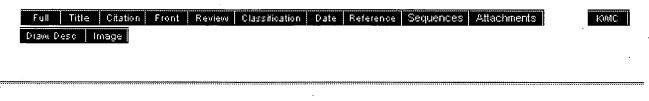
File: USPT

Jun 5, 1984

US-PAT-NO: 4452890

DOCUMENT-IDENTIFIER: US 4452890 A

TITLE: Method of producing L-threonine by fermentation



5. Document ID: US 4411997 A

L7: Entry 5 of 13

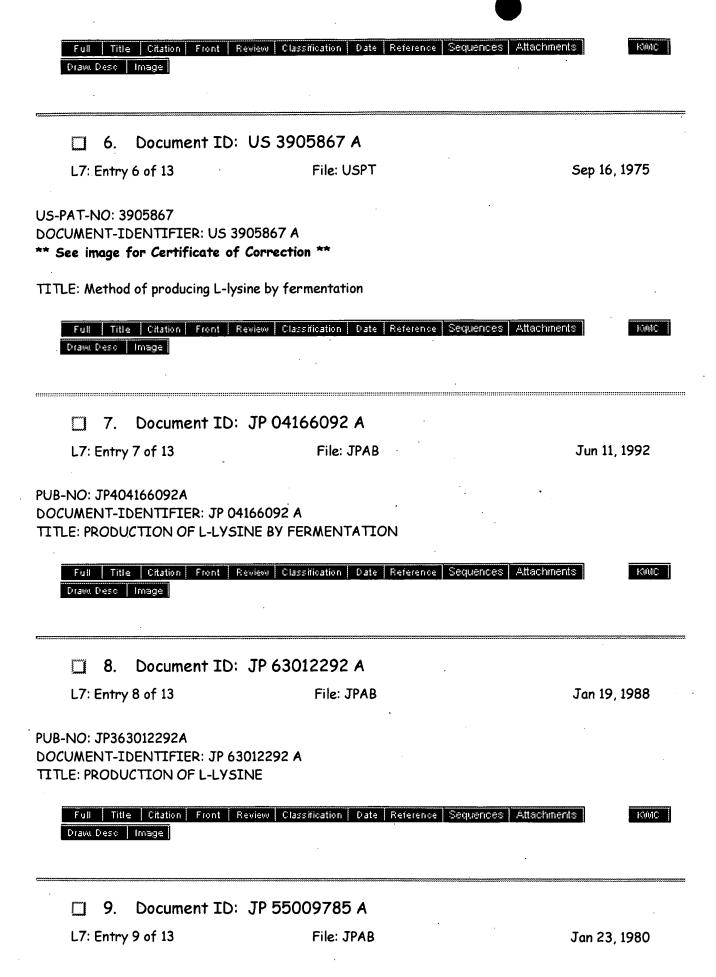
File: USPT

Oct 25, 1983

US-PAT-NO: 4411997

DOCUMENT-IDENTIFIER: US 4411997 A

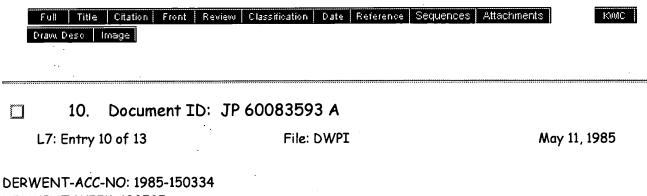
TITLE: Method for producing L-lysine by fermentation



PUB-NO: JP355009785A

DOCUMENT-IDENTIFIER: JP 55009785 A

TITLE: PREPARATION OF L-LYSINE BY FERMENTATION



DERWENT-WEEK: 198525

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TITLE: L-Arginine prodn. by fermentation - using thiazolyl alanine-resistant brevibacterium or corynebacterium microorganisms

Full Draw. I	Title Citation Front Desc Image	Review Classification	Date Reference	Sequences	Attachments	KWIC
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	resistant adj5 L	adj lysine same	corynebactei	r\$		13

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Previous Page Next Page

Generate Collection

Print

Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20020155556 A1

L8: Entry 1 of 8

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155556

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155556 A1

TITLE: Method of producing target substance by fermentation

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Imaizumi, Akira

Kawasaki-shi

JΡ

Usuda, Yoshihiro

Kawasaki-shi

JΡ

Sugimoto, Shinichi

Kawasaki-shi

JΡ

US-CL-CURRENT: 435/115; 435/252.33, 435/69.1

Full	Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachments	}:
Draw, D	eso Image							

2. Document ID: US 20020151700 A1

L8: Entry 2 of 8

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020151700 A1

TITLE: Method to monitor a fermentation process

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Farwick, Mike	Bielefeld		DE	
Brehme, Jennifer	Bielefeld		DE	
Hermann, Thomas	Bielefeld		DE	
Bathe, Brigitte	Salzkotten		DE	
Marx, Achim	Bielefeld		DE	
Mockel, Bettina	Dusseldorf		DE	
Rieping, Mechthild	Bielefeld		DE	
Ermantraut, Eugen	Jena		DE	
Ellinger, Thomas	Jena		DE	
Huthmacher, Klaus	Gelnhausen		DE	
Pfefferle, Walter	Halle		DE	

US-CL-CURRENT: 536/23.2; 435/287.2, 435/6

Full Title Citation	Front Review) Classification	Date	Reference	Sequences	Attachments	į
Draw, Desc Image							

Document ID: US 20020025564 A1 3.

L8: Entry 3 of 8

File: PGPB

Feb 28, 2002

KWIC

PGPUB-DOCUMENT-NUMBER: 20020025564

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020025564 A1

TITLE: Method for producing basic amino acid

PUBLICATION-DATE: February 28, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY **RULE-47** Kawasaki-shi JΡ Kobayashi, Masaki Itoyama, Tsuyoshi Kawasaki-shi JΡ

Mitani, Yukio Tokyo JΡ Kawasaki-shi JΡ

US-CL-CURRENT: 435/106

Usui, Naoki

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWWC
Draw, D	eso l	mage								

4. Document ID: US 5989875 A

L8: Entry 4 of 8

File: USPT

Nov 23, 1999

US-PAT-NO: 5989875

DOCUMENT-IDENTIFIER: US 5989875 A

TITLE: Method of process for producing L-lysine by fermentation

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw, Desc Image

5. Document ID: US 4346170 A

L8: Entry 5 of 8

File: USPT

Aug 24, 1982

US-PAT-NO: 4346170

DOCUMENT-IDENTIFIER: US 4346170 A

TITLE: Method for producing L-lysine by fermentation

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KMC |

Oraw, Desc | Image |

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6. Document ID: JP 57094297 A

L8: Entry 6 of 8

File: JPAB

Jun 11, 1982

PUB-NO: JP357094297A

DOCUMENT-IDENTIFIER: JP 57094297 A

TITLE: PREPARATION OF L-LYSINE BY FERMENTATION

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWIC

7. Document ID: DE 3027922 A DE 3027922 C FR 2461749 A GB 2055849 A GB 2055849 B JP 56018596 A US 4346170 A

L8: Entry 7 of 8

File: DWPI

Feb 12, 1981

DERWENT-ACC-NO: 1981-12007D

DERWENT-WEEK: 198108

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TITLE: L-lysine prodn. by fermentation - using escherichia mutant strain obtd. by insertion of lysine-prodn. DNA into hybrid plasmid and incorporation into host strain



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brevibacter\$ or Escherichia or bacillus)

Previous Page Next Page

8

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